CONTENTS

On Some Trends in the Development of Astrophysics, V. A. Ambartsumian	1
THE MASSES OF CEPHEIDS, Arthur N. Cox	15
	13
INFRARED SPECTROSCOPIC OBSERVATIONS OF THE OUTER PLANETS, THEIR SATELLITES, AND THE ASTEROIDS, Harold P. Larson	43
FORMATION OF THE TERRESTRIAL PLANETS, George W. Wetherill	77
STELLAR MASSES, Daniel M. Popper	115
The Structure of Extended Extragalactic Radio Sources, ${\it George Miley}$	165
INTERSTELLAR SHOCK WAVES, Christopher F. McKee and David J. Hollenbach	219
ENVELOPES AROUND LATE-TYPE GIANT STARS, B. Zuckerman	263
COSMIC-RAY CONFINEMENT IN THE GALAXY, Catherine J. Cesarsky	289
OPTICAL AND INFRARED POLARIZATION OF ACTIVE EXTRAGALACTIC OBJECTS, J. R. P. Angel and H. S. Stockman	321
WHITE DWARF STARS, James Liebert	363
Nuclear Abundances and Evolution of the Interstellar Medium, $P.G.$ Wannier	399
STELLAR CHROMOSPHERES, Jeffrey L. Linsky	439
MEASUREMENTS OF THE COSMIC BACKGROUND RADIATION, Rainer Weiss	489
MICROWAVE BACKGROUND RADIATION AS A PROBE OF THE CONTEMPORARY STRUCTURE AND HISTORY OF THE UNIVERSE, R. A. Sunyaev and Ya. B. Zel'dovich	537
INDEXES	
AUTHOR INDEX	561
SUBJECT INDEX	577
CUMULATIVE INDEX OF CONTRIBUTING AUTHORS, VOLUMES 14-18	587
CUMULATIVE INDEX OF CHAPTER TITLES, VOLUMES 14-18	589